

Figure 1A

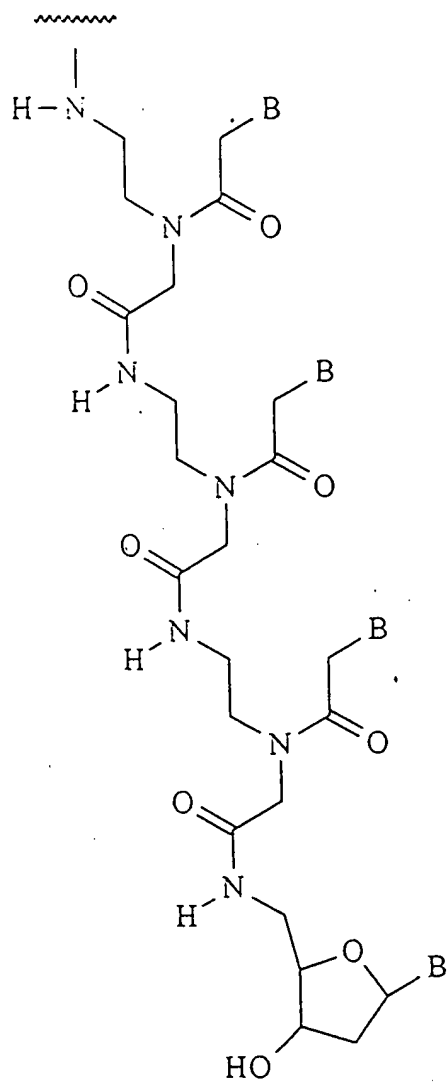


Figure 1B

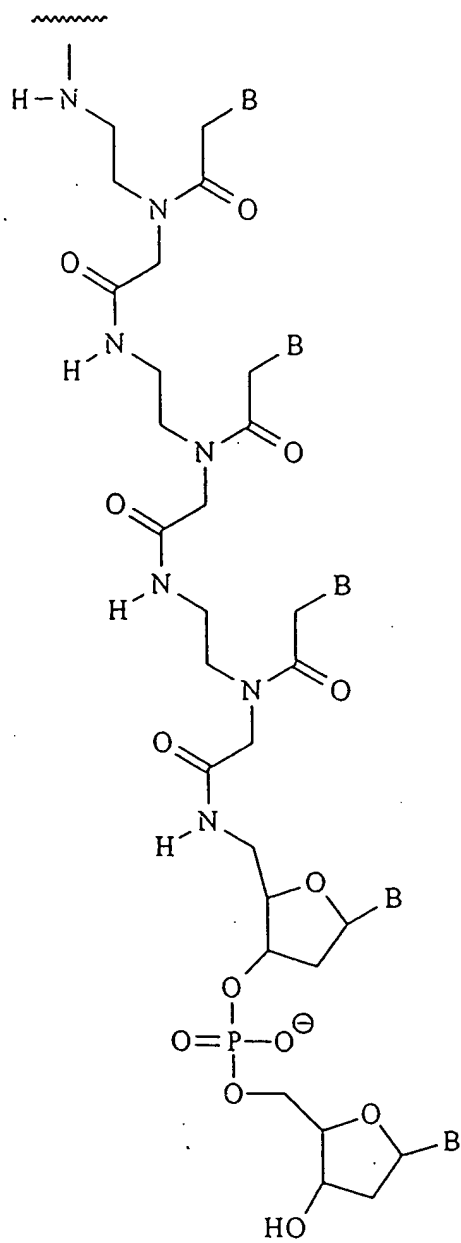


Figure 1C

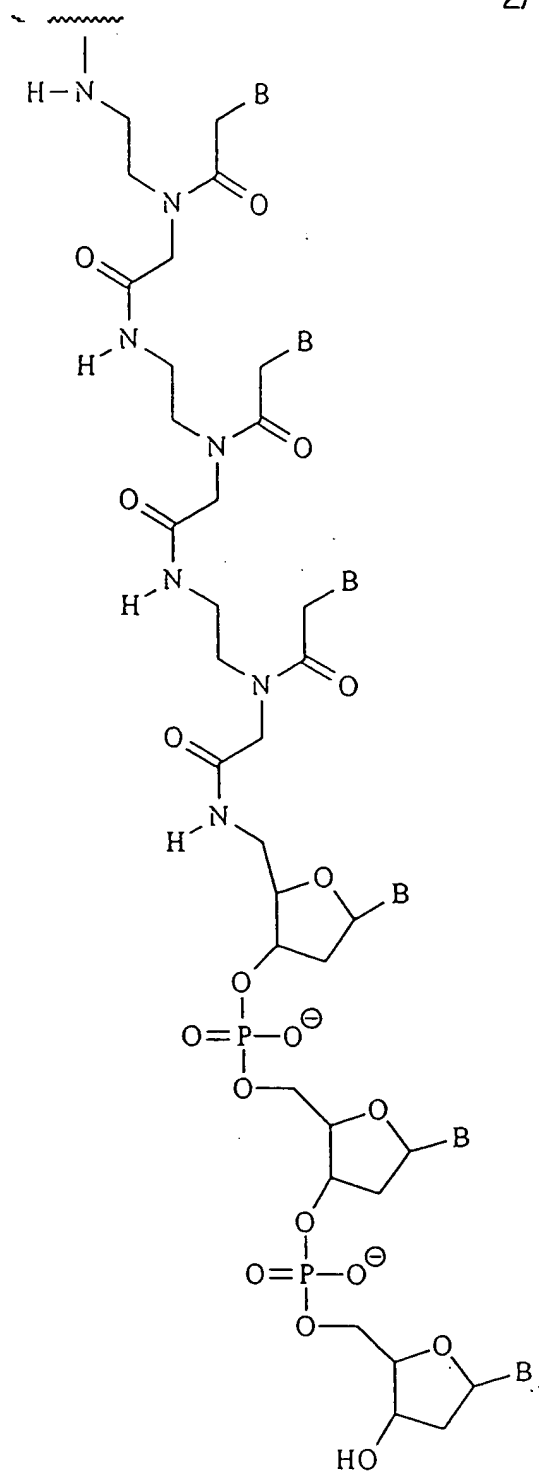


Figure 1D

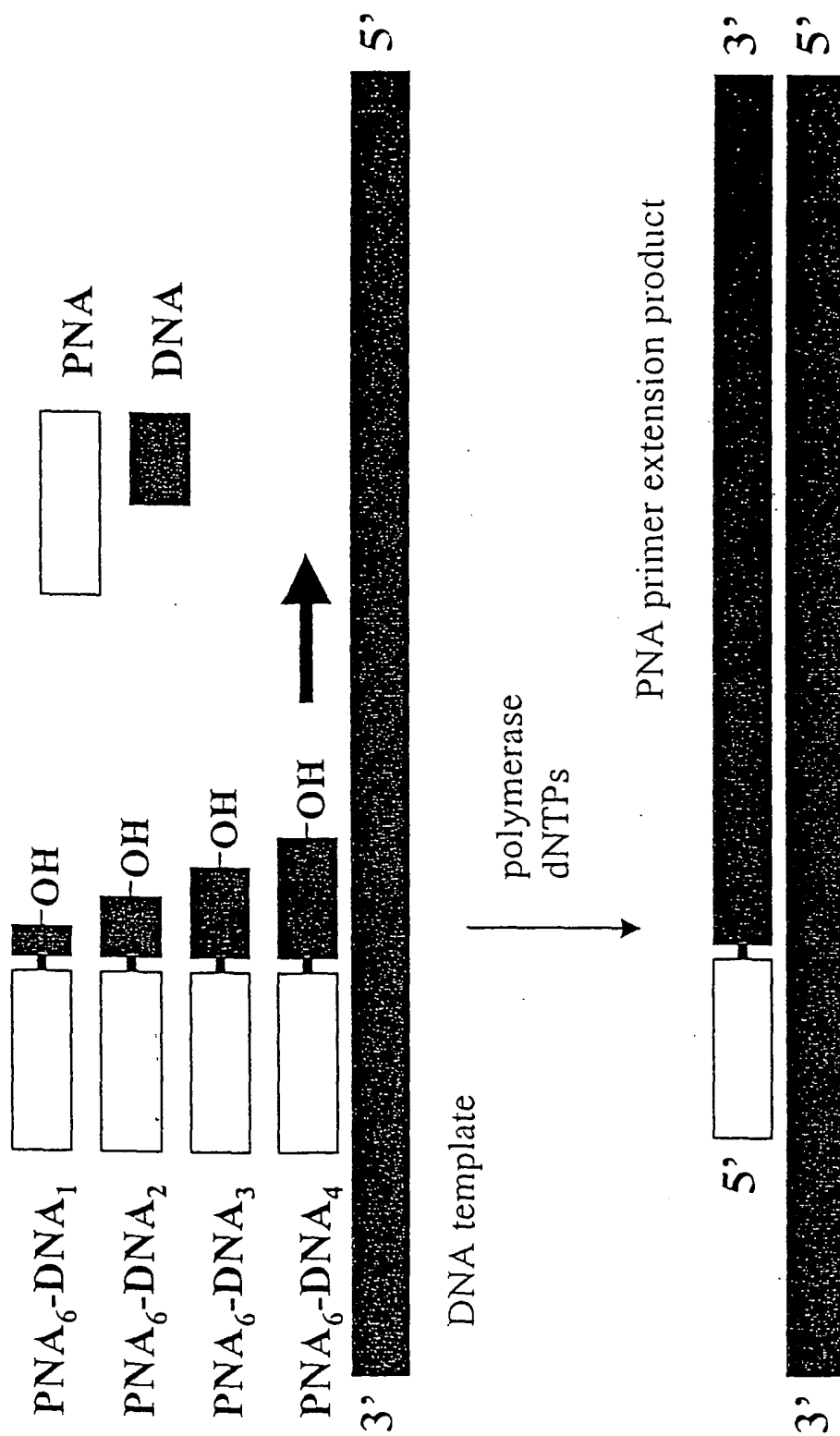


Figure 2

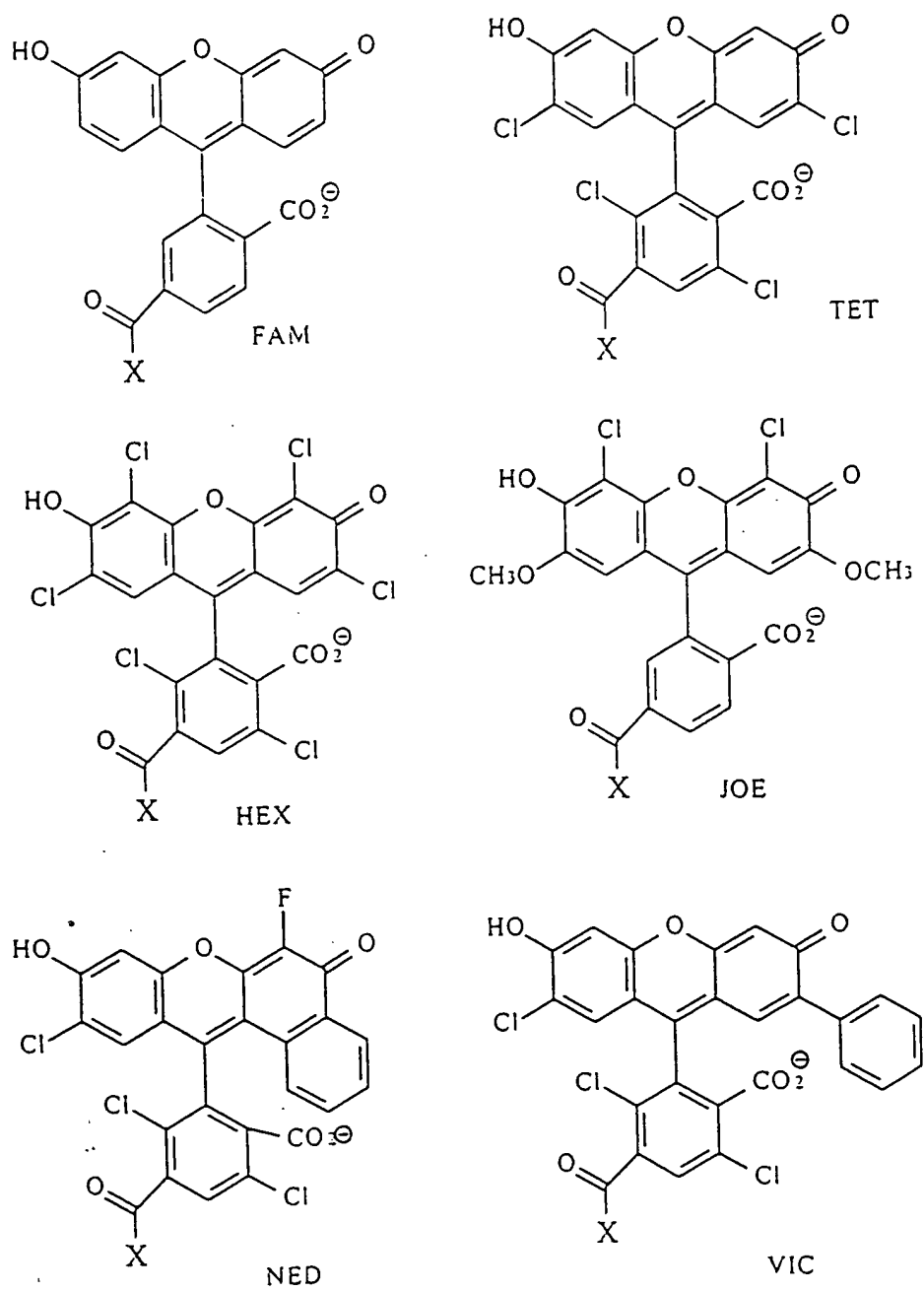


Figure 3A

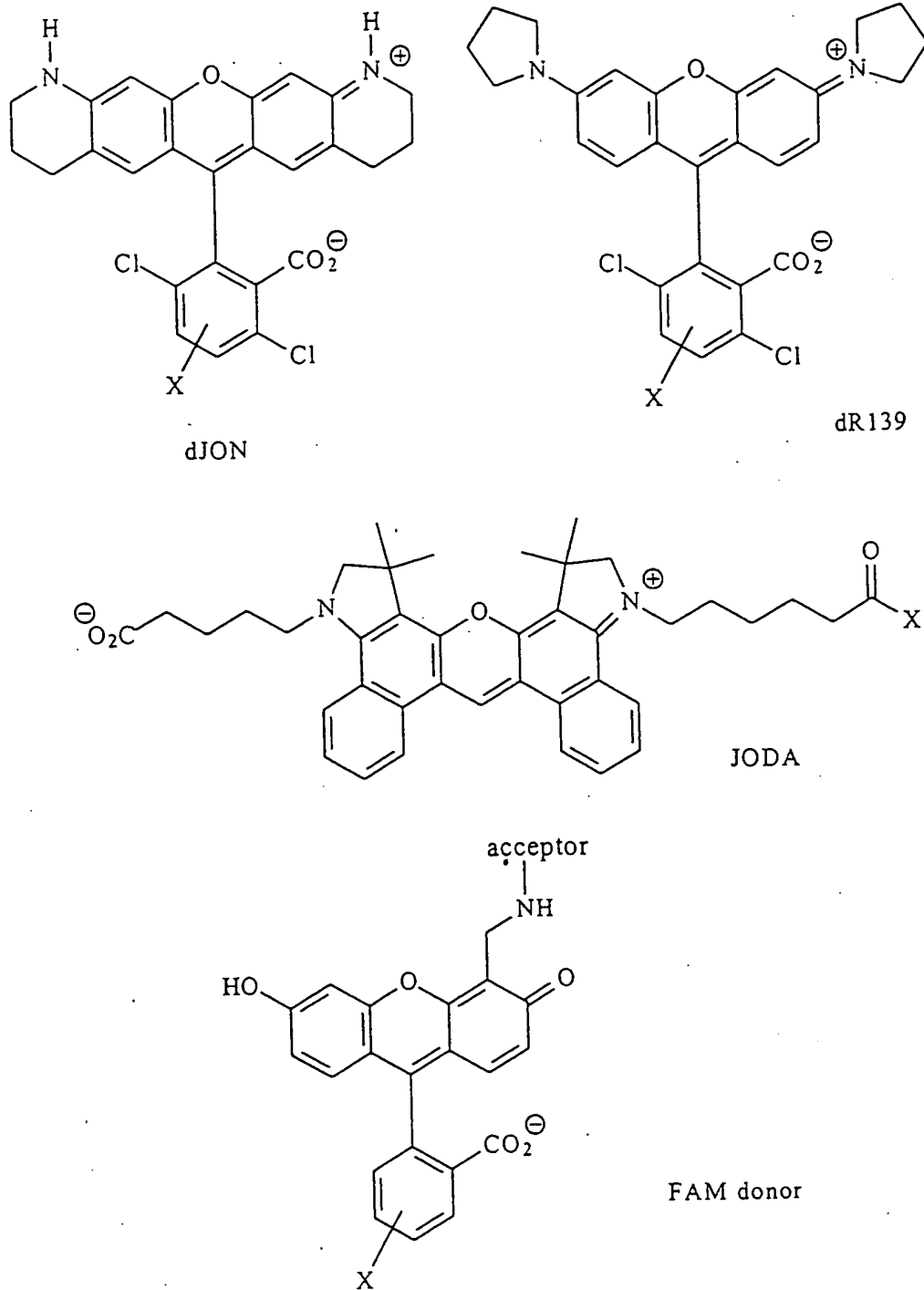


Figure 3B

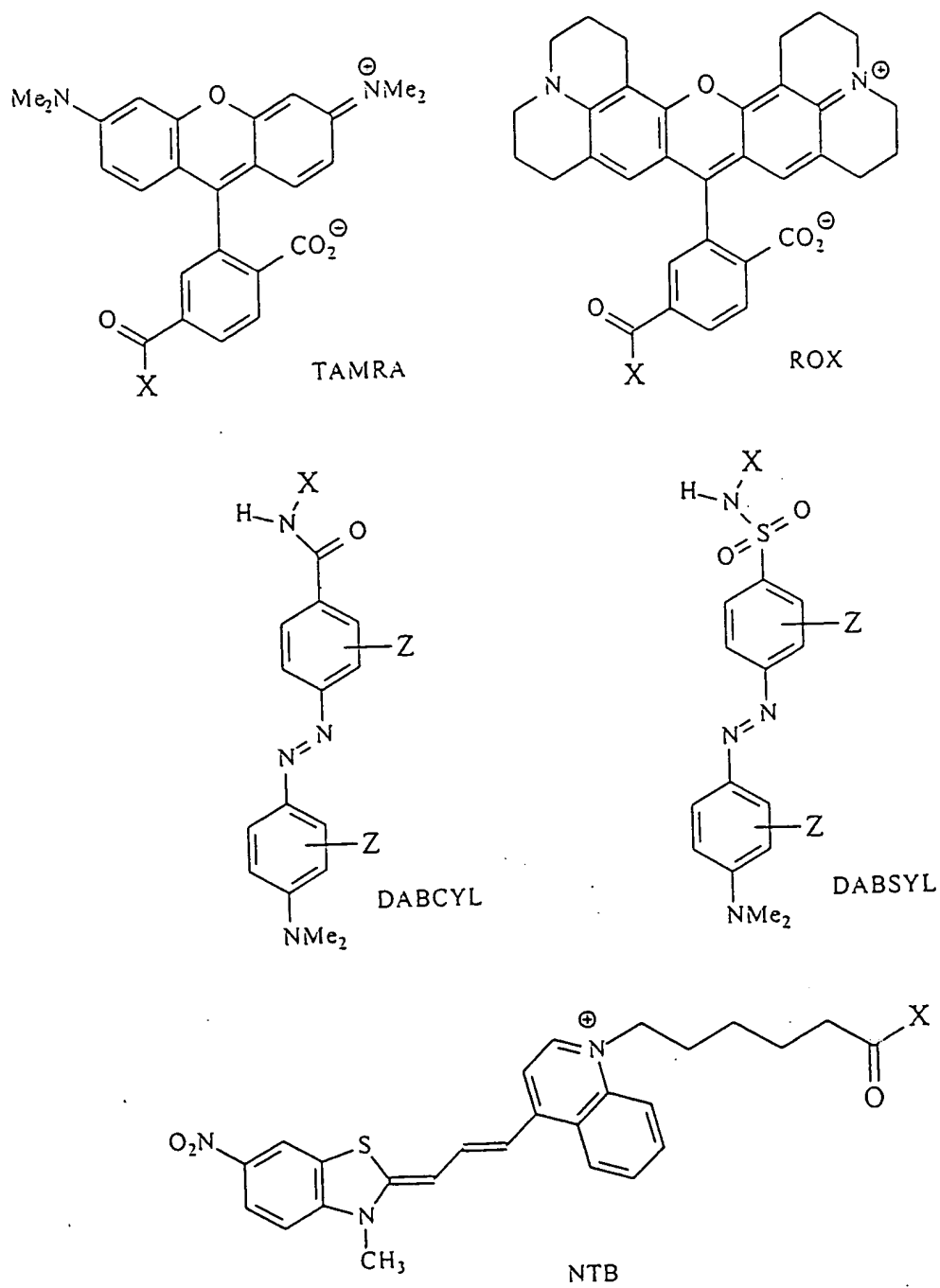
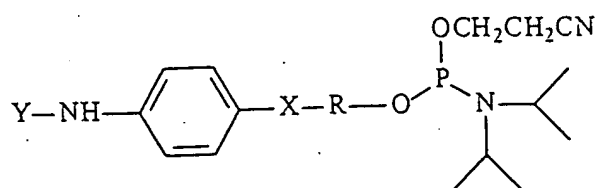
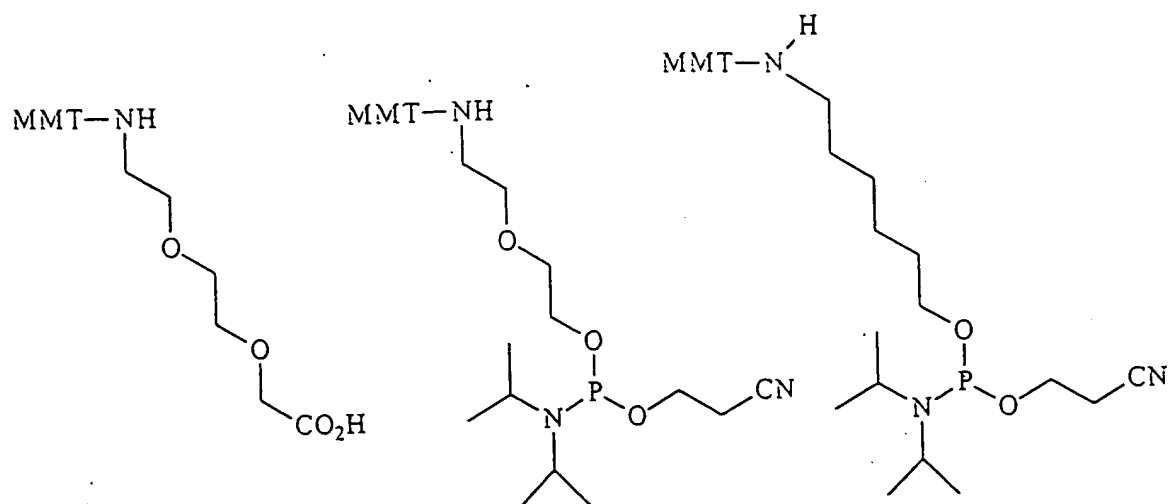


Figure 4



X = amide, urea, CH₂, O, or R

R = (CH₂)_n or (CH₂CH₂O)_n
n = 1 - 10

Y = trifluoroacetyl, Fmoc, trityl, MMT, DMT

Figure 5

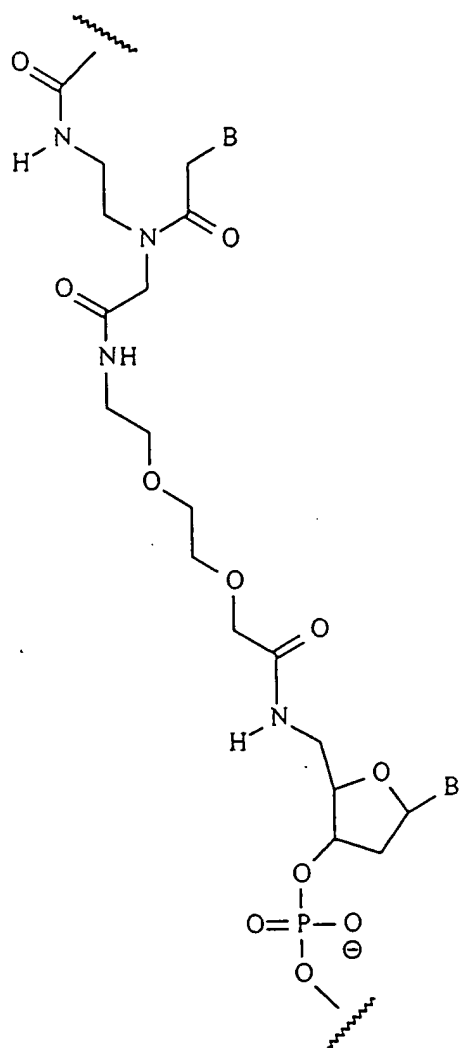


Figure 6A

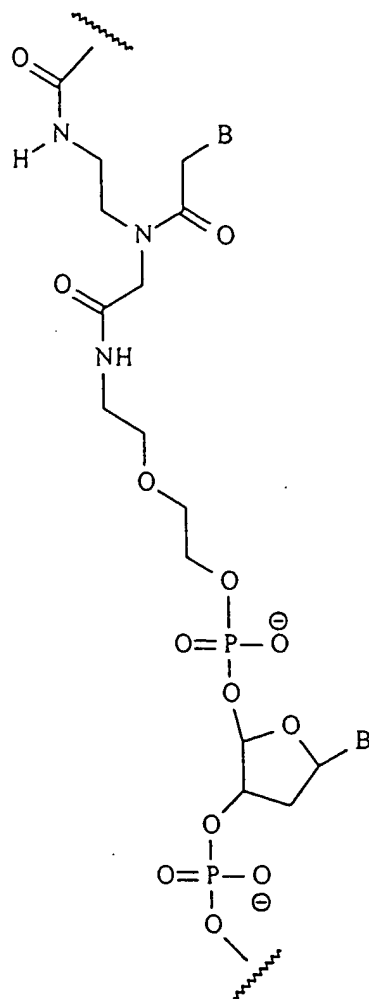
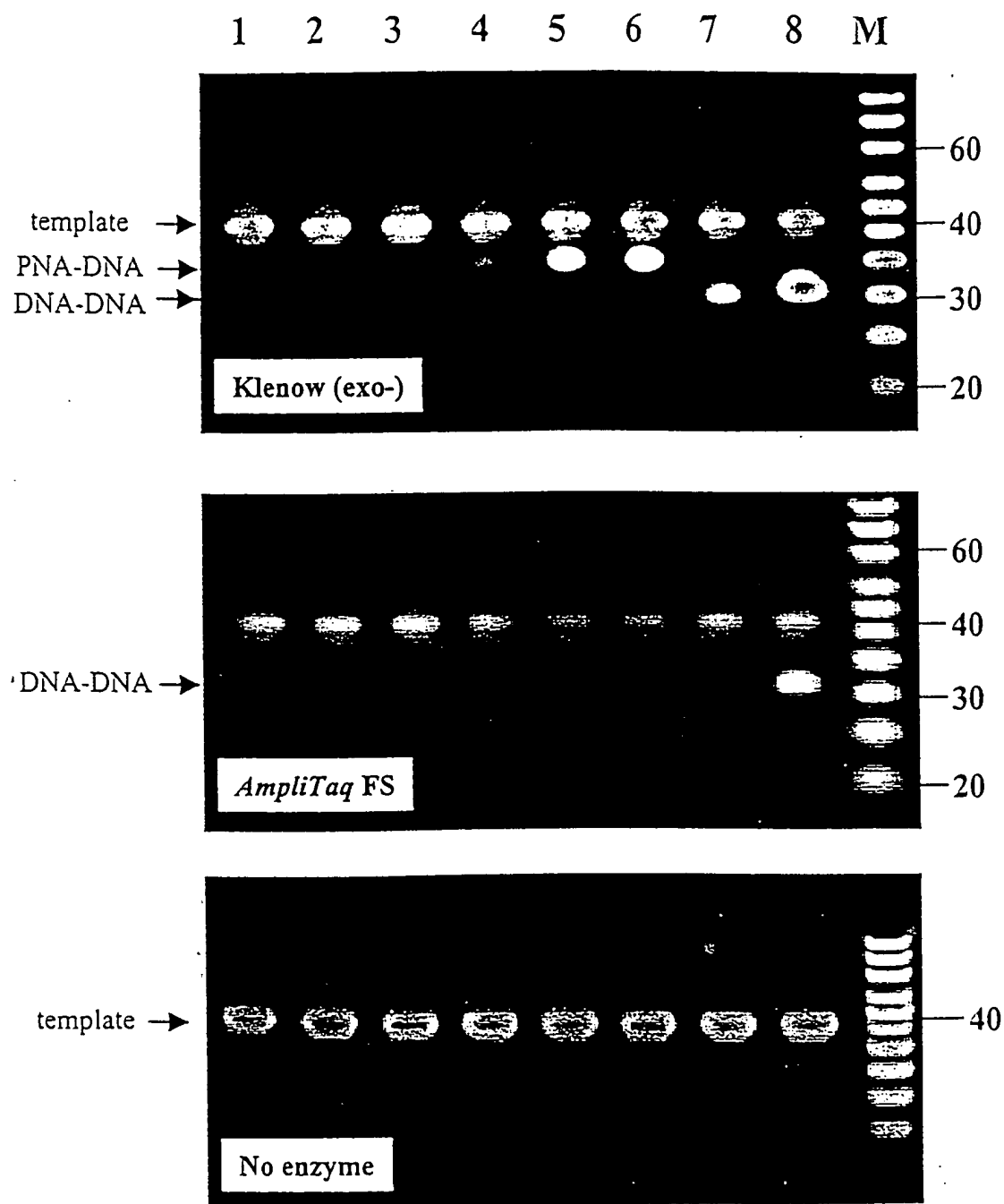
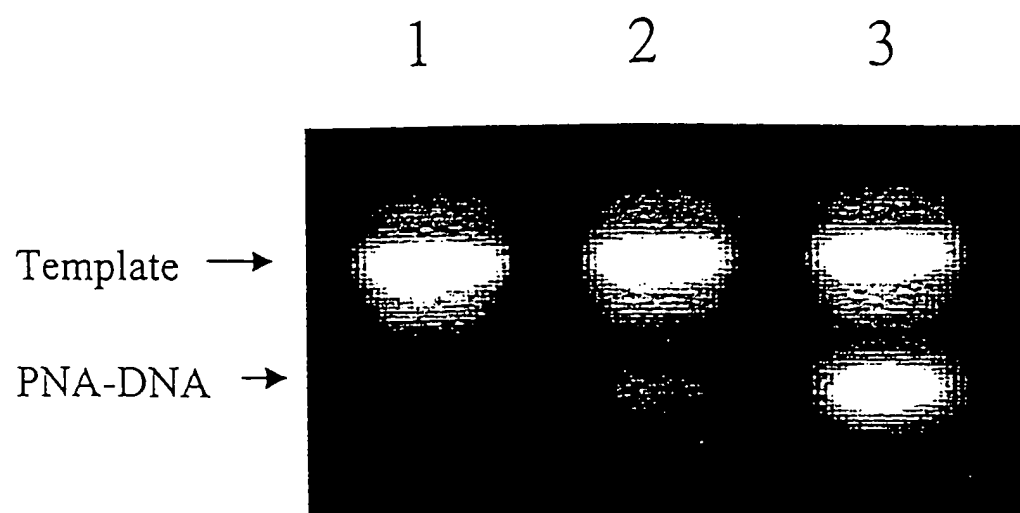


Figure 6B



15% Denaturing PAGE

Figure 7



15% Denaturing PAGE at 70 °C

Figure 8

Perfect match priming Mismatched priming

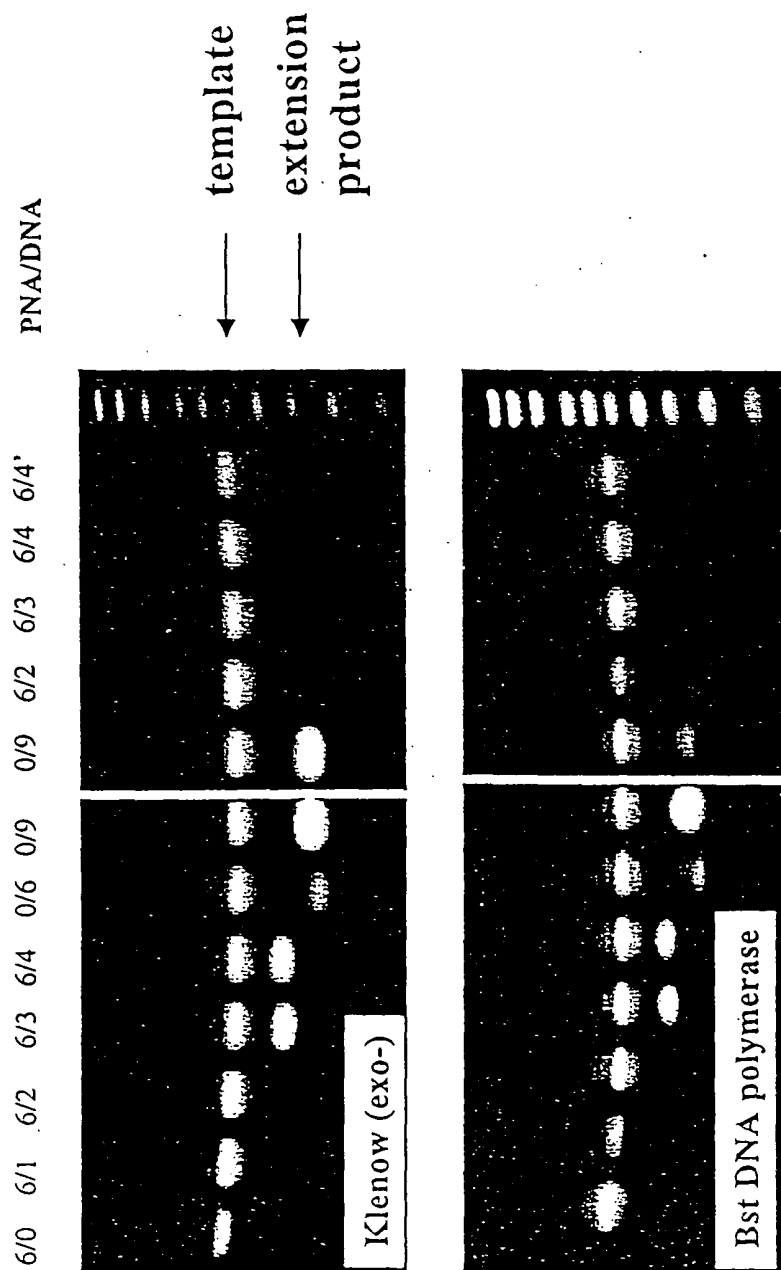
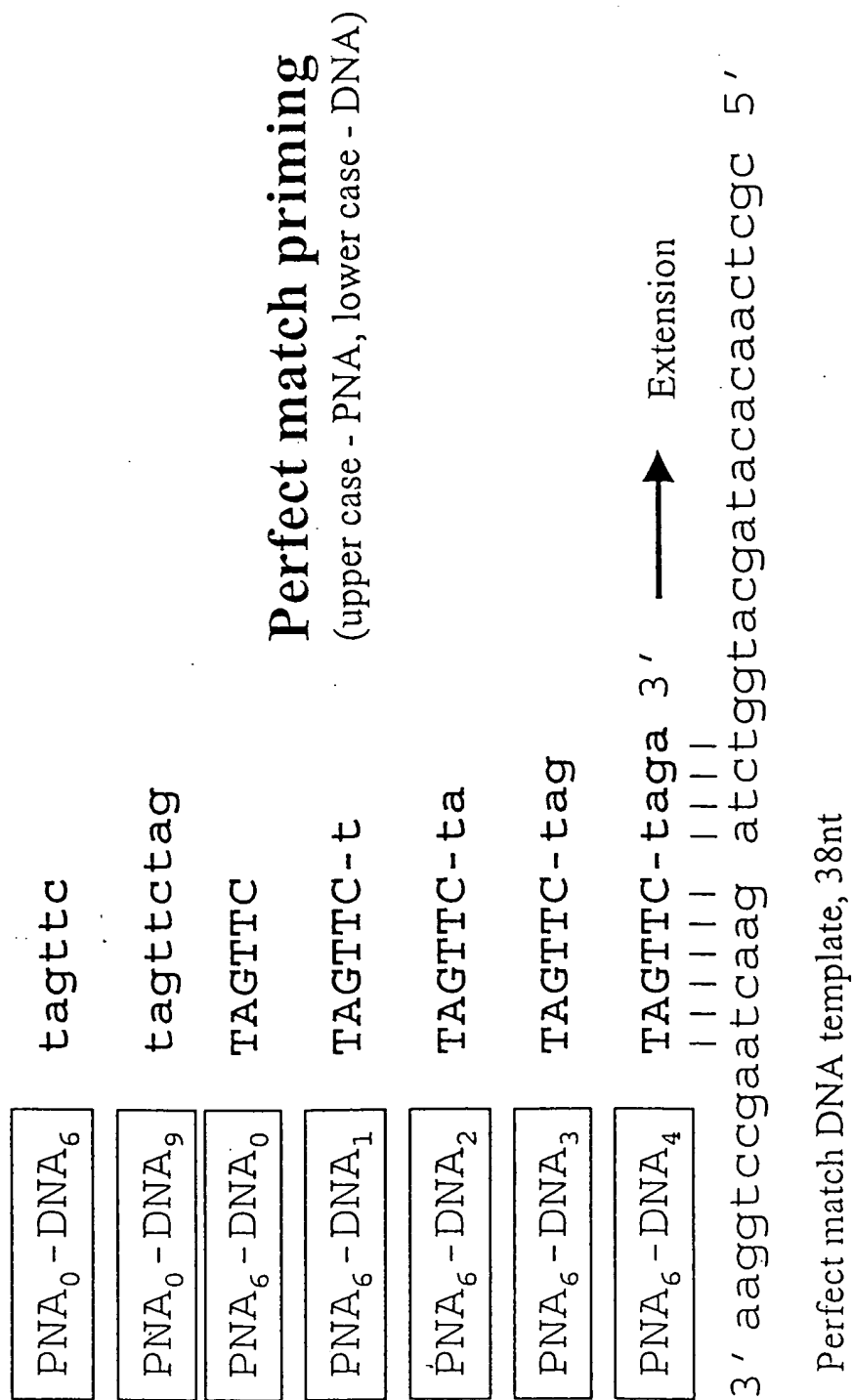


Figure 9



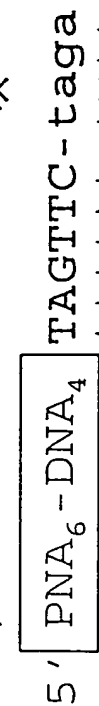
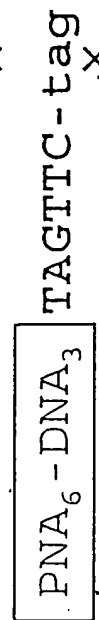
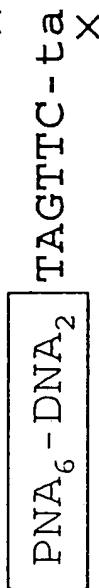
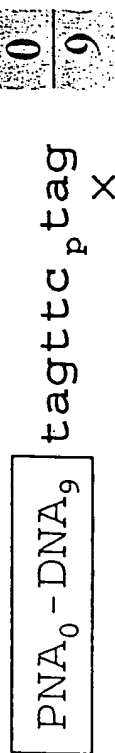
Perfect match priming

(upper case - PNA, lower case - DNA)

Figure 10

Mismatched priming

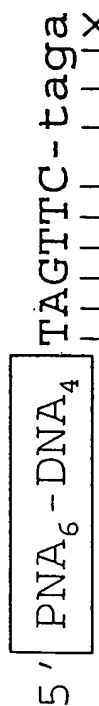
(upper case - PNA, lower case - DNA)



3' aaggtccgaatcaag acctggtacgatacacaaactcgc 5'

mismatch DNA template, 38nt (SEQ. ID NO. 12)

Extension
→



3' aaggtccgaatcaag atcgggtacgatacacaaactcgc 5'

mismatch DNA template, 38nt (SEQ. ID NO. 13)

Figure 11

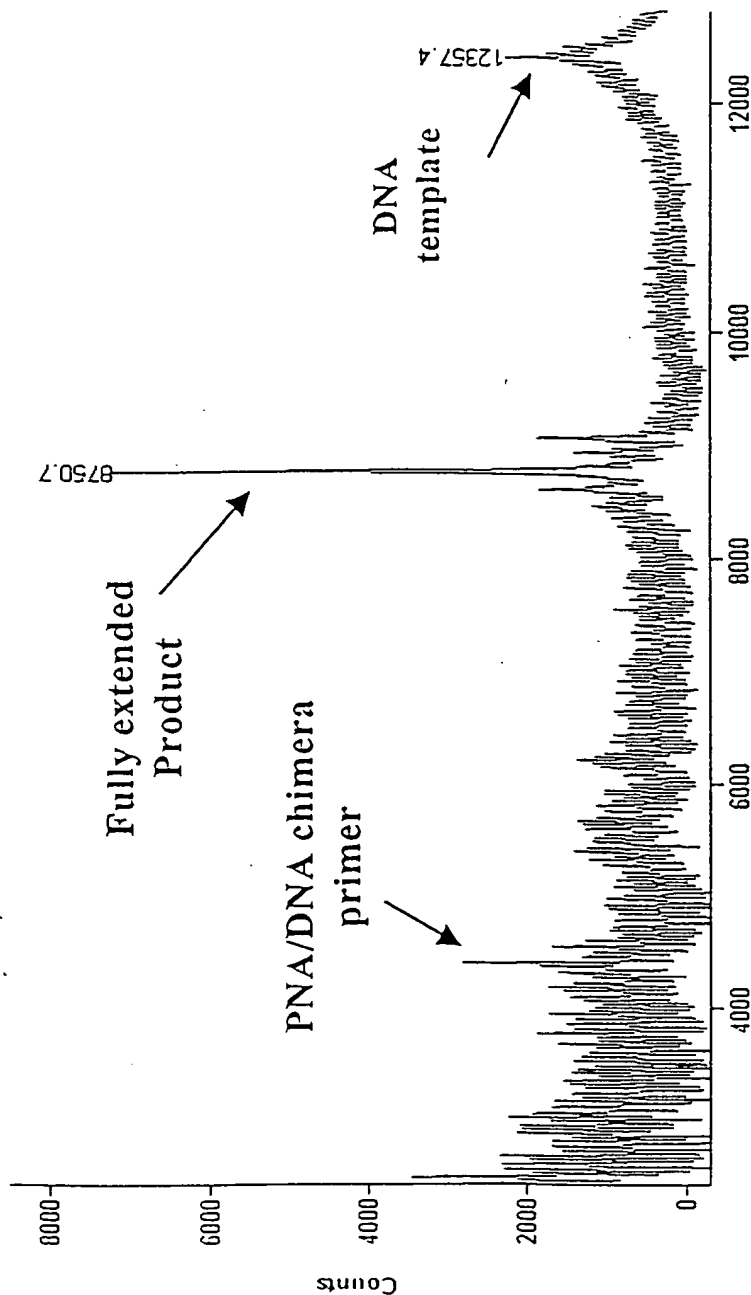


Figure 12

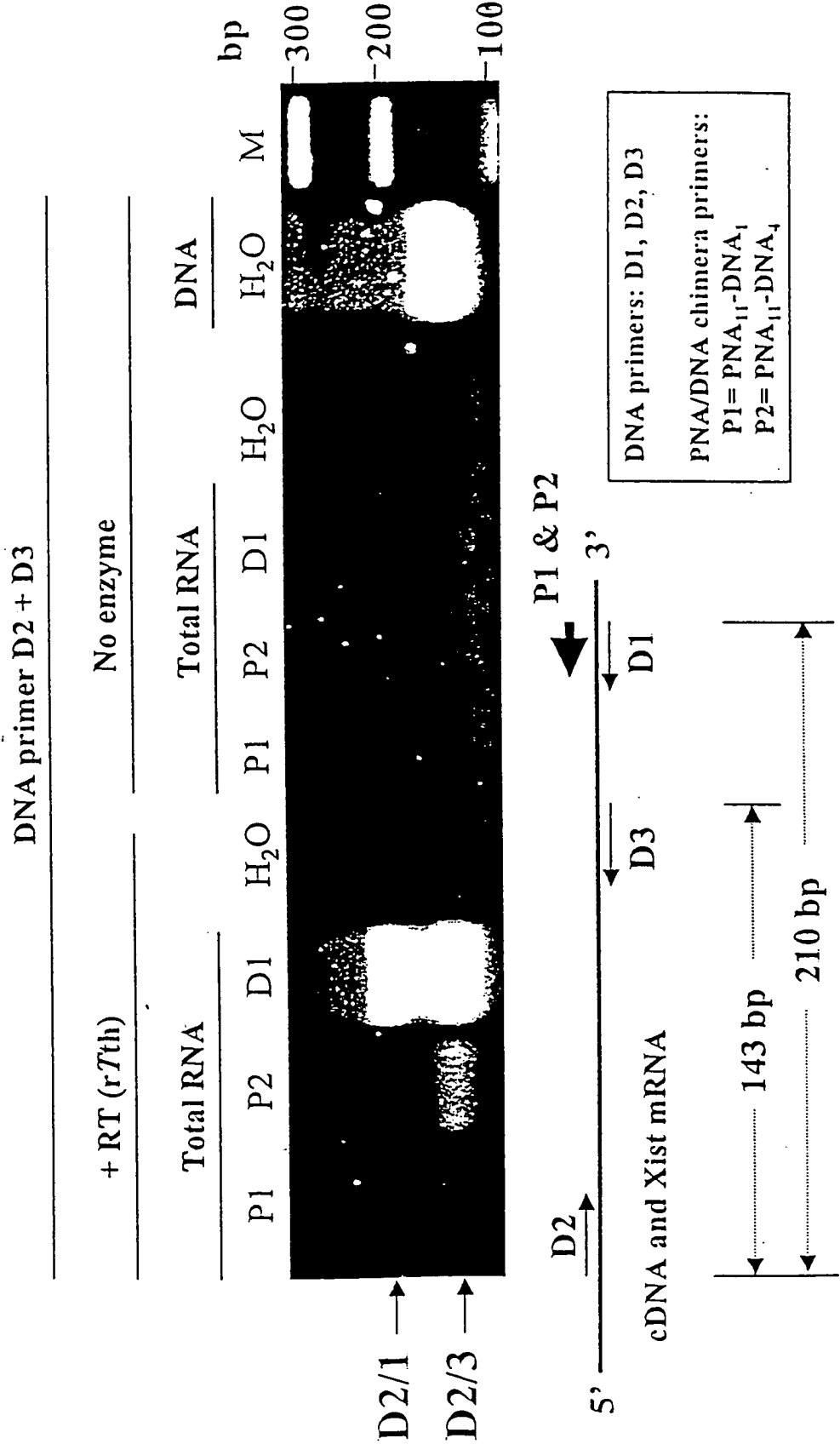


Figure 13

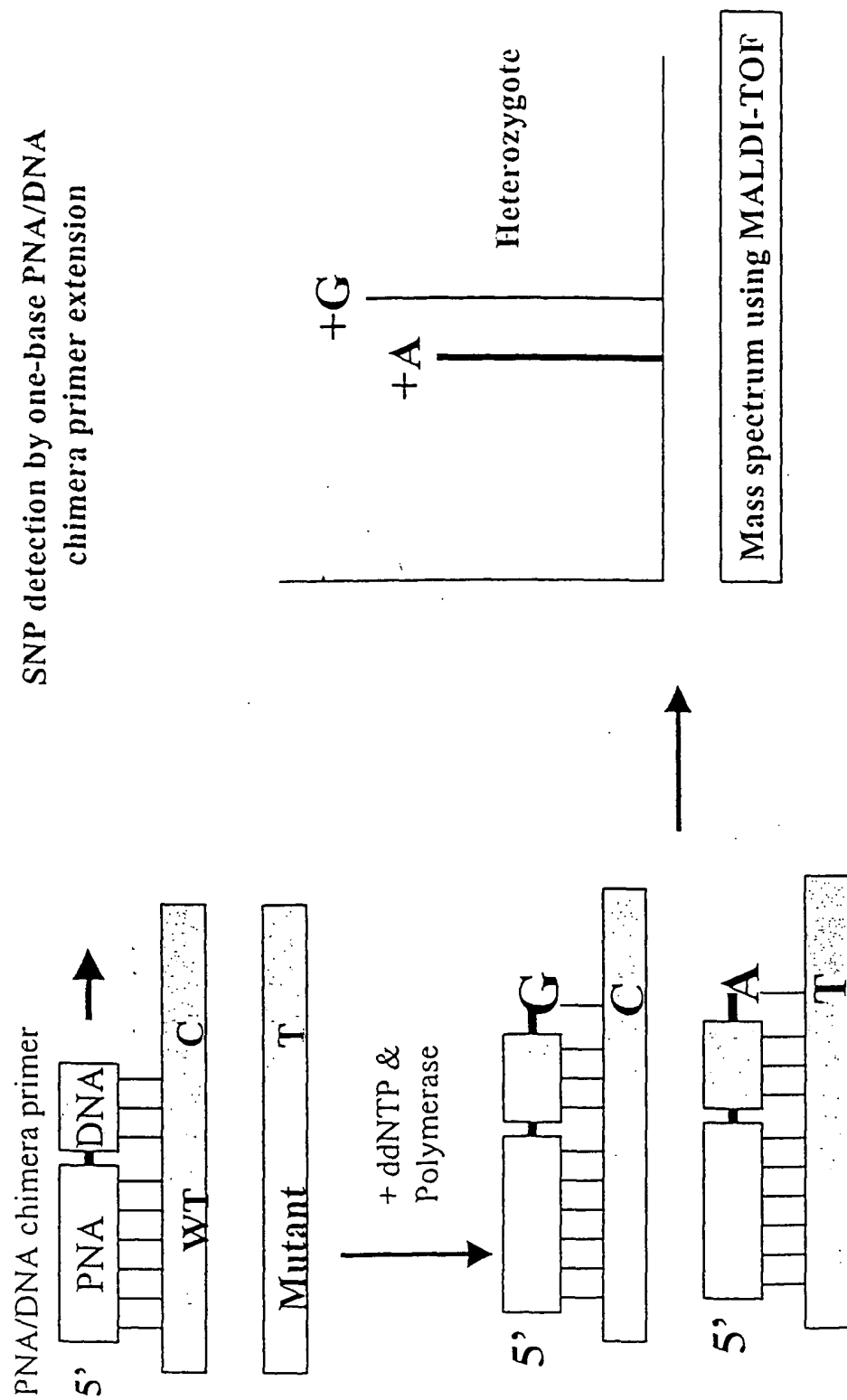
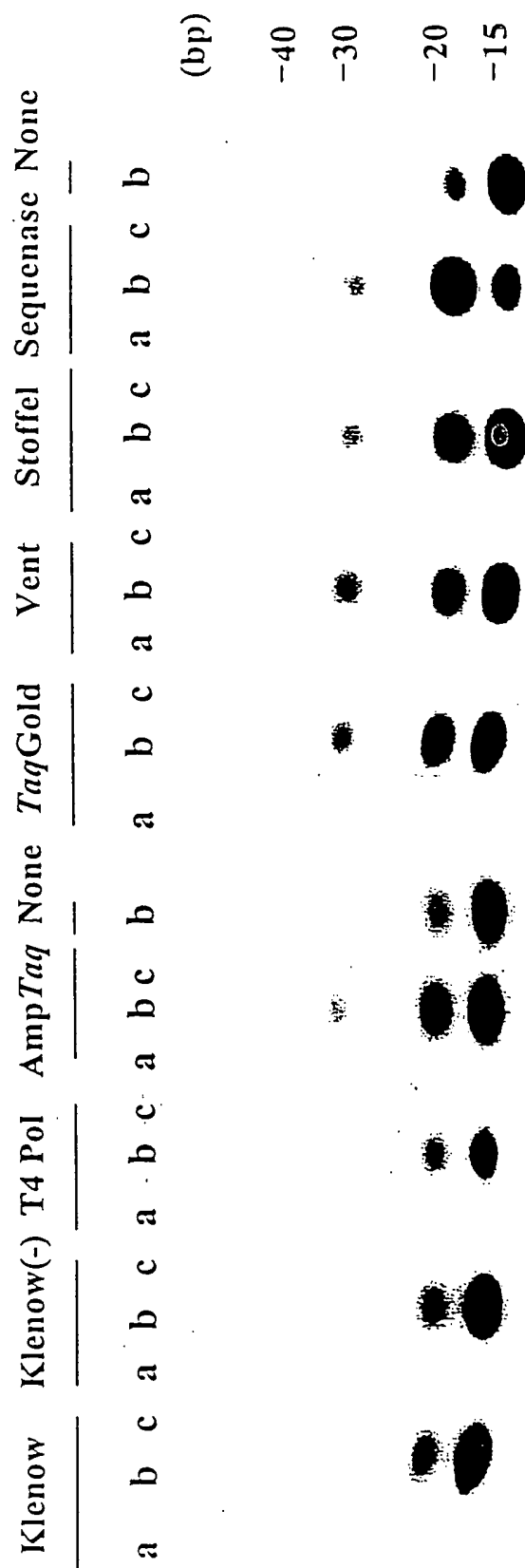


Figure 14



- a. 50 μ M each dNTP (dATP:dGTP:dCTP:dTTP)
 b. dTTP replaced by 1 μ M TAMRA-dUTP in (a)
 c. ddGTP:dGTP:dATP:dTTP:dCTP 500:5:50:50:50 μ M

Figure 15